

30 Pattern Answer

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Pattern 1

```
*  
**  
***  
****  
*****  
  
for (int i = 1; i <= 5; i++) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print("*");  
    }  
    System.out.println();  
}
```

Pattern 2

```
*****  
****  
***  
**  
*  
  
for (int i = 5; i >= 1; i--) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print("*");  
    }  
    System.out.println();  
}
```

Pattern 3

```
*  
**  
***  
**  
*  
  
for (int i = 1; i <= 3; i++) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print("*");  
    }  
    System.out.println();  
}  
for (int i = 2; i >= 1; i--) {  
    for (int j = 1; j <= i; j++) {  
        System.out.print("*");  
    }  
}
```

```
System.out.println();
}
```

Pattern 4 (Right aligned)

```

*
**
***
****
*****
for (int i = 1; i <= 5; i++) {
for (int s = 5; s > i; s--) {
    System.out.print(" ");
}
for (int j = 1; j <= i; j++) {
    System.out.print("*");
}
System.out.println();
}
```

Pattern 5

```
*****
****
 ***
 **
 *
for (int i = 5; i >= 1; i--) {
for (int s = 5; s > i; s--) {
    System.out.print(" ");
}
for (int j = 1; j <= i; j++) {
    System.out.print("*");
}
System.out.println();
}
```

Pattern 6

```

*
**
***
****
*****
for (int i = 1; i <= 4; i++) {
for (int j = 1; j <= (2 * i - 1); j++) {
    System.out.print("*");
}
System.out.println();
}
```

Pattern 7

```
*****
*****
***
*
for (int i = 4; i >= 1; i--) {
    for (int j = 1; j <= (2 * i - 1); j++) {
        System.out.print("*");
    }
    System.out.println();
}
```

Pattern 8 (Hollow)

```
*****
*   *
*****
for (int i = 1; i <= 3; i++) {
    for (int j = 1; j <= 5; j++) {
        if (i == 2 && j > 1 && j < 5) {
            System.out.print(" ");
        } else {
            System.out.print("*");
        }
    }
    System.out.println();
}
```

Pattern 9

```
*
* *
* * *
* * * *

for (int i = 1; i <= 4; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print("* ");
    }
    System.out.println();
}
```

Pattern 10 (Diamond)

```
*
 ***
 *****
 ***
 *
for (int i = 1; i <= 3; i++) {
    for (int j = 1; j <= 2 * i - 1; j++) {
        System.out.print("*");
    }
}
```

```
    }
    System.out.println();
}
for (int i = 2; i >= 1; i--) {
    for (int j = 1; j <= 2 * i - 1; j++) {
        System.out.print("*");
    }
    System.out.println();
}
```

Pattern 11

```
1
12
123
1234
12345
```

```
for (int i = 1; i <= 5; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print(j);
    }
    System.out.println();
}
```

Pattern 12

```
1
22
333
4444
```

```
for (int i = 1; i <= 4; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print(i);
    }
    System.out.println();
}
```

Pattern 13

```
1
21
321
4321
```

```
for (int i = 1; i <= 4; i++) {
    for (int j = i; j >= 1; j--) {
        System.out.print(j);
    }
    System.out.println();
}
```

Pattern 14

```

1
2 3
4 5 6
7 8 9 10

int num = 1;
for (int i = 1; i <= 4; i++) {
for (int j = 1; j <= i; j++) {
    System.out.print(num + " ");
    num++;
}
System.out.println();
}

```

Pattern 15

```

5
45
345
2345
12345

```

```

for (int i = 5; i >= 1; i--) {
for (int j = i; j <= 5; j++) {
    System.out.print(j);
}
System.out.println();
}

```

Pattern 16 (0–1)

```

1
01
101
0101

for (int i = 1; i <= 4; i++) {
int val = (i % 2 == 1) ? 1 : 0;
for (int j = 1; j <= i; j++) {
    System.out.print(val);
    val = 1 - val;
}
System.out.println();
}

```

Pattern 17

```

1
121
12321
1234321

for (int i = 1; i <= 4; i++) {
for (int j = 1; j <= i; j++) {

```

```

        System.out.print(j);
    }
    for (int j = i - 1; j >= 1; j--) {
        System.out.print(j);
    }
    System.out.println();
}

```

Pattern 18 (Pascal)

```

1
11
121
1331

```

```

int[][] arr = {
    {1},
    {1,1},
    {1,2,1},
    {1,3,3,1}
};
for (int i = 0; i < arr.length; i++) {
    for (int j = 0; j < arr[i].length; j++) {
        System.out.print(arr[i][j]);
    }
    System.out.println();
}

```

Pattern 19

```

A
AB
ABC
ABCD

```

```

for (char i = 'A'; i <= 'D'; i++) {
    for (char j = 'A'; j <= i; j++) {
        System.out.print(j);
    }
    System.out.println();
}

```

Pattern 20

```

A
BB
CCC
DDDD

```

```

char ch = 'A';
for (int i = 1; i <= 4; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print(ch);
    }
    ch++;
}

```

```
        System.out.println();
    }
```

Pattern 21

A
BA
CBA
DCBA

```
char ch = 'A';
for (int i = 1; i <= 4; i++) {
    for (char j = ch; j >= 'A'; j--) {
        System.out.print(j);
    }
    ch++;
    System.out.println();
}
```

Pattern 22

A
BC
DEF
GHIJ

```
char ch = 'A';
for (int i = 1; i <= 4; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print(ch);
        ch++;
    }
    System.out.println();
}
```

Pattern 23

```
*1
*2*
*3*3
*4*4*4

for (int i = 1; i <= 4; i++) {
    System.out.print("*");
    for (int j = 1; j <= i; j++) {
        System.out.print(i);
        System.out.print("*");
    }
    System.out.println();
}
```

Pattern 24

1*

```

12*
123*
1234*

for (int i = 1; i <= 4; i++) {
for (int j = 1; j <= i; j++) {
    System.out.print(j);
}
System.out.println("*");
}

```

Pattern 25

```

* * * *
* * *
* *

for (int i = 4; i >= 2; i--) {
for (int s = 4; s > i; s--) {
    System.out.print(" ");
}
for (int j = 1; j <= i; j++) {
    System.out.print("* ");
}
System.out.println();
}

```

Pattern 26

```

* *
*
* *

for (int i = 1; i <= 3; i++) {
if (i == 2) {
    System.out.println(" * ");
} else {
    System.out.println("* *");
}
}

```

Pattern 27

```

1 0 1 0
0 1 0 1
1 0 1 0
0 1 0 1

for (int i = 0; i < 4; i++) {
for (int j = 0; j < 4; j++) {
    System.out.print((i + j) % 2 + " ");
}
System.out.println();
}

```

Pattern 28

```
1  
2 3  
4 5 6  
7 8 9 10
```

```
int num = 1;  
for (int i = 1; i <= 4; i++) {  
    for (int s = 4; s > i; s--) {  
        System.out.print(" ");  
    }  
    for (int j = 1; j <= i; j++) {  
        System.out.print(num + " ");  
        num++;  
    }  
    System.out.println();  
}
```

Pattern 29 (Box)

```
****  
* *  
* *  
****
```

```
for (int i = 1; i <= 4; i++) {  
    for (int j = 1; j <= 4; j++) {  
        if (i == 1 || i == 4 || j == 1 || j == 4) {  
            System.out.print("*");  
        } else {  
            System.out.print(" ");  
        }  
    }  
    System.out.println();  
}
```